

WELL LOGS

K Z

API number:	30-025-38994		
OGRID:		Operator:	COG OPERATING LLC
		Property:	GC FEDERAL # 11

surface	ULSTR:	I	19	T	17S	R	32E
			1550	FSL	660	FEL	

BH Loc	ULSTR:	I	19	T	17S	R	32E
			1649	FSL	339	FEL	

Ground Level:	3938	DF:	3949	KB:	3950	
Datum:	KB			TD:	6817	

Land: **FEDERAL**

Completion Date: (1) **2/7/2009**

Date Logs Received: **3/5/2009**

Date Logs Due in: (2) **2/27/2009**

Late

Confidential:	NP			Date out:		
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Confidential period: 90 Days for State & Fee, 1 Year for federal

Date Due In: (1) is equal to Completion Date (1) + 20 days

Logs	Depth interval		
CNL	200	6754	Compensated Neutron Log
HRLA	3000	4920	High Resolution Laterolog

K Z

OCD TOPS

Rustler	602	Strawn			
Tansill		Atoka			
Yates	2151	Morrow			
7 rvs	2308				
	2667	Austin			
	2767	Chester			
Queen	2915	Miss Lime			
Penrose					
Grayburg	3292				
San Andres	3643				
Glorieta	5202				
Yeso	5258				
Blinberry					
Tubb					
Drinkard					
Abo					
Wolfcamp					

Results of Directional Survey

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	MD	N/S	E/W	VD
	5221	67.77	218.83	5213.57
TOP PERFS/OH	5268	68.32	221.94	5260.46
	5317	68.90	225.19	5309.35
	6586	93.39	304.00	6575.64
BOT PERFS/OH	6610	93.90	305.84	6599.56
	6649	94.74	308.82	6638.44

NEXT TO LAST	6649	94.74	308.82	6638.44
LAST READING	6762	97.43	317.23	6751.09
TD	6817	98.74	321.32	6805.92

Surface Location	1550	FS	660	FE
Projected BHL	1649	FS	339	FE
Location of				
Top Perfs/OH	1618	FS	438	FE
Bottom Perfs/OH	1644	FS	354	FE

SUMMARY of Subsurface Locations

Surface Location	I-19-17S-32E	1550	FS	660	FE	Vert. Depth
Top Perfs/OH	I-19-17S-32E	1618	FS	438	FE	5260.46
Bottom Perfs/OH	I-19-17S-32E	1644	FS	354	FE	6599.56
Projected TD	I-19-17S-32E	1649	FS	339	FE	6805.92

OPERATOR
WELL/LEASE
COUNTY

COG
GC FED 11
LEA

I-19-175-32e
1550/s & 660/e

STATE OF NEW MEXICO
DEVIATION REPORT

30-025-38994

238	0.25
507	0.75
623	1.00
807	0.25
1317	0.75
1633	1.00
2179	0.78
2210	0.80
2242	0.83
2252	0.57
2274	1.01
2305	1.17
2401	5.39
2433	5.21
2496	5.08
2591	4.58
2687	3.66
2782	4.38
2877	3.77
2972	4.36
3067	4.06
3163	4.26
3257	5.06
3351	4.28
3446	4.32
3541	4.45
3637	4.21
3700	3.65
3764	3.53
3828	3.29
3891	3.85
3955	4.11
4018	3.65
4082	3.70
4207	3.65
4271	3.59
4335	3.36
4398	3.40
4429	3.14
4524	3.67
4620	3.72
4684	4.10
4747	4.74
4811	3.64
4874	4.00
4968	4.09
5064	3.72
5127	3.47
5222	4.04
5318	3.69
5381	4.07
5444	4.03
5507	4.08
5602	4.42
5666	3.75
5729	3.33
5826	3.75
5889	3.60
5952	3.39
6016	3.32
6396	3.55
6459	3.23
6522	3.54
6586	3.59
6649	4.59
6762	4.17

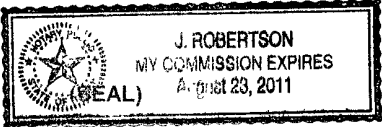
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SIGNED BY:

DAVID SLEDGE, VP-DRILLING

STATE OF TEXAS
COUNTY OF MIDLAND

ON THIS 23rd DAY OF January, 2009, BEFORE ME, J ROBERTSON, A NOTARY PUBLIC, PERSONALLY APPEARED DAVID SLEDGE, WHO ACKNOWLEDGED AND EXECUTED THIS DOCUMENT. WITNESS MY HAND AND OFFICIAL SEAL.



J. Robertson

NOTARY PUBLIC